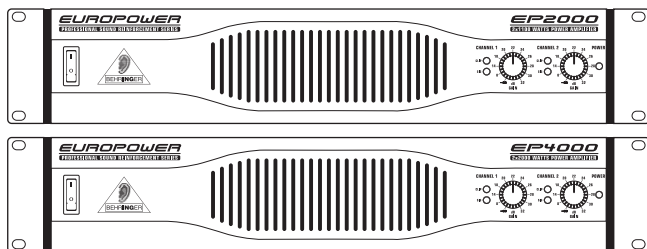


User Manual



EUROPOWER EP2000/EP4000

Professional 2,000-Watt and 4,000-Watt Stereo Power Amplifier with ATR (Accelerated Transient Response) Technology

Thank you

Thank you for choosing a BEHRINGER EUROPOWER amplifier. This piece of high-end gear was developed for professional use in live applications, and its many features make it a useful and dependable part of your sound system.

The EUROPOWER amps feature an input filter for each channel, enabling you to remove the low-frequency portion of the signal, if desired. Additionally, there is a limiter that protects your loudspeakers. Various operating modes, such as parallel or mono-bridged mode, open up various possibilities for effective implementation with the rest of your audio equipment for almost any application.

This manual first describes the controls and connection points so that you fully understand the EUROPOWER amplifier and its functions. Then it delves into the various applications where the EUROPOWER amp can be used, and finishes with more details on installing and making the connections to the amplifier.

Have fun with your new amplifier.

This manual is available in English, German, French, Spanish, Italian, Russian, Polish, Dutch, Finnish, Swedish, Danish, Portuguese, Greek, Japanese and Chinese. There may also be more current versions of this document. Download them by going to the appropriate product page at:

www.behringer.com

A50-A3830-08001

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Important Safety Instruction



Caution

This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



Caution

This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

- ◆ To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.
- ◆ To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- ◆ These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.
- ◆ We would like to bring your attention to the fact that extremely loud sound levels may damage your hearing as well as your loudspeakers. Please lower both GAIN controls leftwards before powering up the unit. Be sure to keep the volume at an appropriate level.
- ◆ Ventilation: The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa rug, or similar surface that may block the ventilation openings: or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.



Caution

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15 The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
- 16 Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



1. Introduction

Honestly, who really likes to read manuals? We know you want to get started right away, but please read this manual carefully and keep it for future reference. It is only after reading these instructions that you will fully understand and be able to use all the features your EUROPOWER amplifier has to offer.

1.1 Before you get started

1.1.1 Shipment

Your EUROPOWER was carefully packed at the factory, and the packaging is designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred during transit.

◆ **If the unit is damaged, please do NOT return it to BEHRINGER, but notify your dealer and the shipping company immediately. Otherwise, claims for damage or replacement may not be granted.**

1.1.2 Initial operation

Please make sure the unit is provided with sufficient ventilation, and never place your EUROPOWER amp on top of other heat-emitting equipment or in the vicinity of a heater to avoid the risk of overheating.

The mains connection is made via the enclosed power cord and a standard IEC receptacle. It meets all international safety certification requirements.

- ◆ **Please make sure that all units have a proper ground connection. For your own safety, never remove or disable the ground conductor from the unit or the AC power cord.**
- ◆ **The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.**

1.1.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://www.behringer.com> and read the terms and conditions of our warranty carefully. Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://www.behringer.com>). Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

2. Control elements

2.1 Front panel

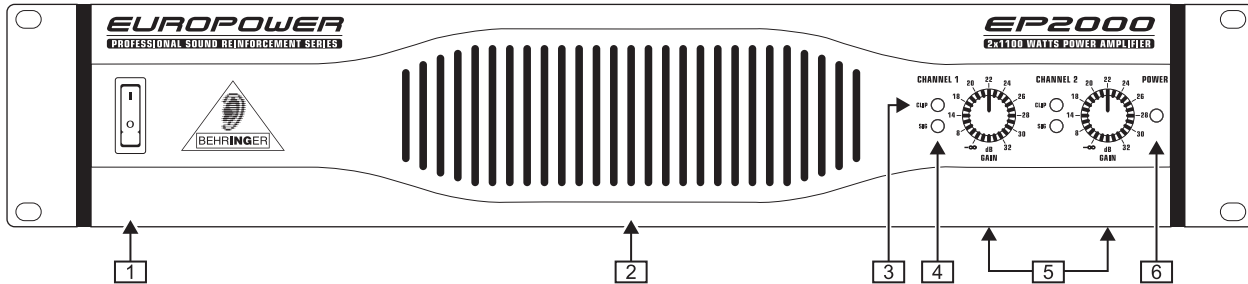


Fig. 2.1: Front panel control elements

Since control elements of both the EP2000 and the EP4000 are identical, we have used the EP2000 as the model represented in the illustrations to assure simplicity.

① The main switch is used to power up the amp.

♦ Merely switching the unit off does not mean that it is fully disconnected from the mains. When not using the unit for prolonged periods of time, please unplug the unit's power cord from the power outlet.

② Ventilation openings are located at the front of the unit, so that hot air is prevented from being trapped inside the unit, thus causing faulty operation or even damage.

③ The CLIP LED lights up when the signal is distorted.

Should distortion occur, reduce the input level, so that the CLIP LED stops lighting up.

④ The SIGNAL LED lights up as long as a signal is present at the input.

⑤ The Gain control (channels 1 and 2) is used for setting up the input gain.

⑥ The POWER LED lights up as soon as the unit is powered up.

2.2 Rear panel

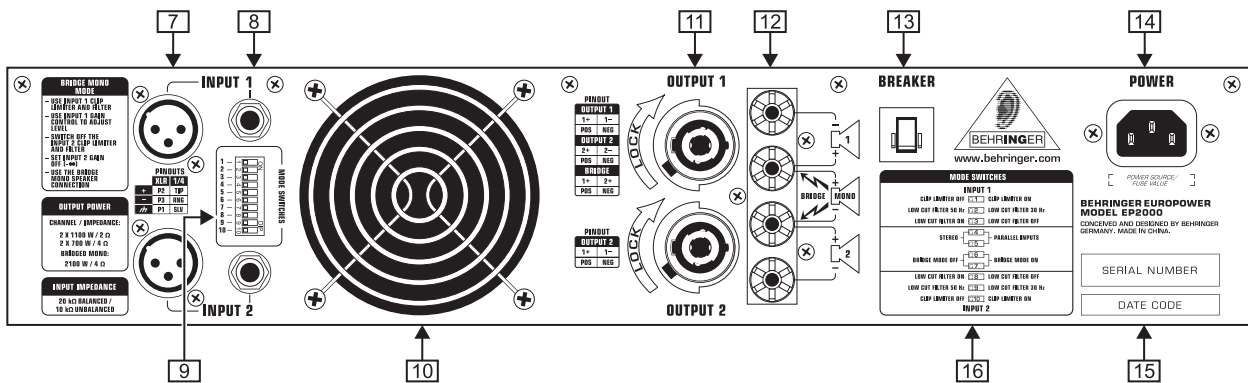


Fig. 2.2: Rear panel control elements

⑦ These are the balanced XLR inputs (channels 1 and 2).

⑧ These are the stereo 1/4" TRS inputs (channels 1 and 2). They can also be used with unbalanced plugs.

⑨ These are the MODE switches, used to alter the operating modes as well as to set the limiters and high-pass filters (see chapter 2.3).

⑩ The unit's fan is located here. Fan speed adjusts automatically to assure trouble-free operation.

♦ To prevent faulty operation, please assure that the unit is kept at a distance from other appliances emanating heat.

⑪ These are the speaker outputs (channels 1 and 2). When running the unit in mono-bridged mode (see chapter 2.3.5), please use the channel 1 output exclusively. For further information on the connectors please refer to chapter 4.1.

⑫ These are the output terminals (channels 1 and 2). When running in mono, please make sure to use both middle connectors to connect your loudspeaker.

- 13 BREAKER (automated fuse). After eliminating the cause of faulty operation, simply depress the BREAKER and power up the unit again. The BREAKER acts in place of common discardable fuses.



Caution

- ◆ Before engaging the BREAKER switch, you should power down the unit (POWER switch set to OFF)!
- 14 Power is supplied via an IEC connector. The matching cable is provided with the unit.
- 15 SERIAL NUMBER of your EUROPOWER.
- 16 Here you can find a detailed overview of the individual MODE SWITCHES functions (16).

2.3 Configuration switches (MODE SWITCHES)

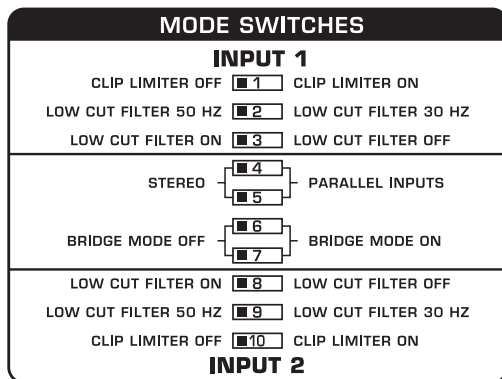


Fig. 2.3: Dip-switches

2.3.1 Clip limiter

When the input signal connected to your amp is too high, you end up with a distorted output signal. To prevent this, both channels of your EUROPOWER feature a clip limiter that can be engaged or disengaged selectively. The limiters automatically recognize distortion and lower amplification until distortion is reduced to a tolerable level. To preserve the dynamic characteristics of the signal when low distortion levels are occurring, the clip limiters function with moderate suppression. Use switches 1 (ch. 1) and 10 (ch. 2) to activate the clip limiters. When using broadband loudspeaker systems, the clip limiter reduces high frequency distortions which occur when an amplifier is overloaded. The drivers are thus protected from being damaged.

2.3.2 Input filter

The LF (high-pass) filter removes frequencies below 30 and 50 Hz respectively. The reproduction of the signal's bass portion is thus optimized, since ultra-low, distracting frequencies are eliminated, and more power is available for the reproduction of the wanted segment of the signal. Engaging and disengaging the filters is done by using the switches 3 (ch. 1) and 8 (ch. 2). Switches 2 (ch. 1) and 9 (ch. 2) determine the cut-off frequency. As long as the filter is disengaged, frequencies below 5 Hz are cut to prevent damage.

You should set up the filters so they best suit the frequency response of your speakers, since some speakers (e.g. bass reflex speakers) are particularly sensitive to over-excursion below the listed frequency range.

The 50 Hz filter should be engaged when using broadband speakers because the filter provides a moderate amplification in the 100-Hz range, resulting in a fuller sound. The 30 Hz filter is ideally suited for subwoofer operation as well as for broadband cabinets. The "Off" setting should be used only for special applications (e.g. studio applications), in which recognizing and subsequently removing infra-sound is important.

2.3.3 2-channel mode (stereo)

Both channels of your amp function independently from one another in this operating mode, and each has its own input signal. Two independent speakers are connected at the outputs. To activate this operating mode, please set the MODE SWITCHES 4 and 5 to "STEREO".

◆ When running the unit in two-channel mode, the switches for mono-bridged mode must be disengaged (dip switches 6 and 7 in left position).

2.3.4 Parallel mode

Running in parallel mode enables you to feed a signal via one of the inputs into both outputs. Each channel drives its own loudspeaker with independent amplification, filter and limit characteristics. To link the inputs, set the MODE SWITCHES 4 and 5 to "PARALLEL INPUTS".

◆ Mono-bridged mode switches must be disengaged when running in parallel mode.

With inputs set to parallel, you can use the remaining input connectors to feed the signal into additional amplifiers.

This means that the channel 2 inputs function as outputs.

The parallel mode is well-suited for applications in which driving two speakers with the same signal but with separate amplification, filter and limiter settings is desired.

2.3.5 Mono-bridged mode

This operating mode enables you to add up the respective voltage of both channels and use it to drive a single loudspeaker. The voltage is therefore doubled, the peak power is quadrupled, and program power is roughly three times as high as that of the individual channels. The input, output, gain, filter and limiter controls belonging to channel 1 are used when running in mono-bridged mode. The controls belonging to channel 2 are not used. To prevent signal cancellation due to internal phase inversion, the GAIN control belonging to channel 2 must be turned to its left-most position.

Use this operating mode to route the power from both channels to a single 8-Ohm or 4-Ohm load. To do so, set up the switches 6 and 7 to "BRIDGE MODE ON". To use the binding posts as your output, you **MUST** use the two middle posts only.

◆ The mono-bridged mode puts added demands on amplifier and speakers. Excessive distortion may occasionally completely mute the amp's outputs as well as cause permanent damage to the speakers. Please assure that your speakers (minimal impedance 4 Ohms) as well as the cables used can handle the extra power generated in this mode.

3. Applications

◆ Running EUROPOWER amplifiers in conjunction with 8-Ohm speakers with a power rating of at least 2 x 400 Watts (EP2000) and 2 x 750 Watts (EP4000) is recommended to assure optimal operation.

3.1 Differences between 2-channel, parallel and mono-bridged operating modes

2-channel mode is the most common operating mode of amplifiers. Both channels operate fully independently from one another. There is always a separate input signal as well as a separate output signal.

Examples:

- 2-channel (stereo) playback
- Two independent mono signals, e.g. instrument signal and monitor mix
- Bi-amp operation, whereby bass frequencies are run on channel 1, and high frequencies on channel 2 (see chapter 3.2 “Bi-amping”).

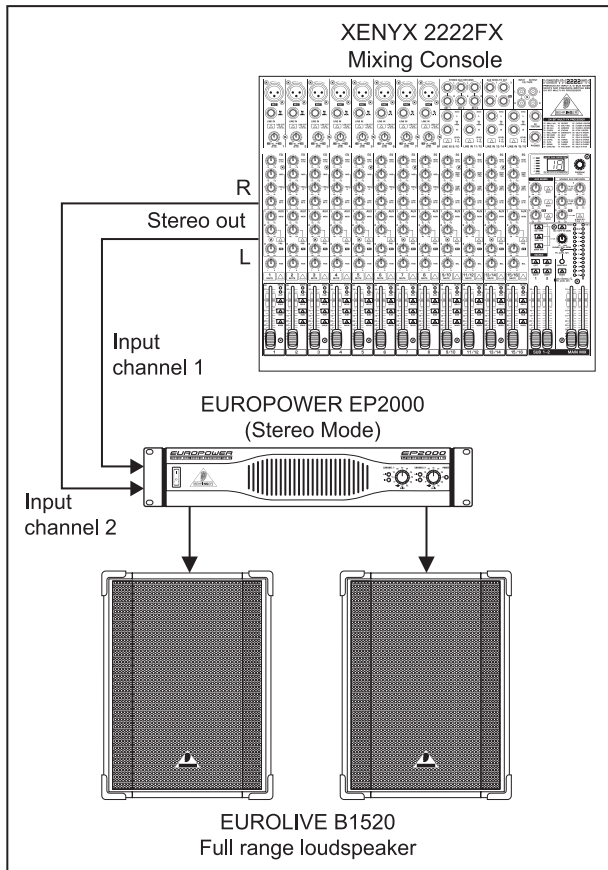


Fig. 3.1: 2-channel mode

MODE SWITCHES	
INPUT 1	
CLIP LIMITER OFF <input type="checkbox"/>	CLIP LIMITER ON <input type="checkbox"/>
LOW CUT FILTER 50 HZ <input type="checkbox"/>	LOW CUT FILTER 30 HZ <input type="checkbox"/>
LOW CUT FILTER ON <input type="checkbox"/>	LOW CUT FILTER OFF <input type="checkbox"/>
STEREO <input type="checkbox"/>	PARALLEL INPUTS <input type="checkbox"/>
BRIDGE MODE OFF <input type="checkbox"/>	BRIDGE MODE ON <input type="checkbox"/>
LOW CUT FILTER ON <input type="checkbox"/>	LOW CUT FILTER OFF <input type="checkbox"/>
LOW CUT FILTER 50 HZ <input type="checkbox"/>	LOW CUT FILTER 30 HZ <input type="checkbox"/>
CLIP LIMITER OFF <input type="checkbox"/>	CLIP LIMITER ON <input type="checkbox"/>
INPUT 2	

Fig. 3.2: DIP switch positions for 2-channel operation

Parallel mode is identical to 2-channel mode, except for the inputs of both channels are internally connected in parallel. One input signal routes parallel both channels, while their filters etc. are independently controlled.

Examples:

- A mono signal is fed into both channels, whereby amplification of each channel is controlled separately.
- Parallel mode (as described above) with connection of an additional amp via the remaining free input connector. The input signal is present there and may be connected to further equipment.

◆ When connecting a balanced input signal, please make sure to exclusively use balanced cables for passing the signal further on. Otherwise, a single unbalanced cable can turn the entire signal unbalanced.

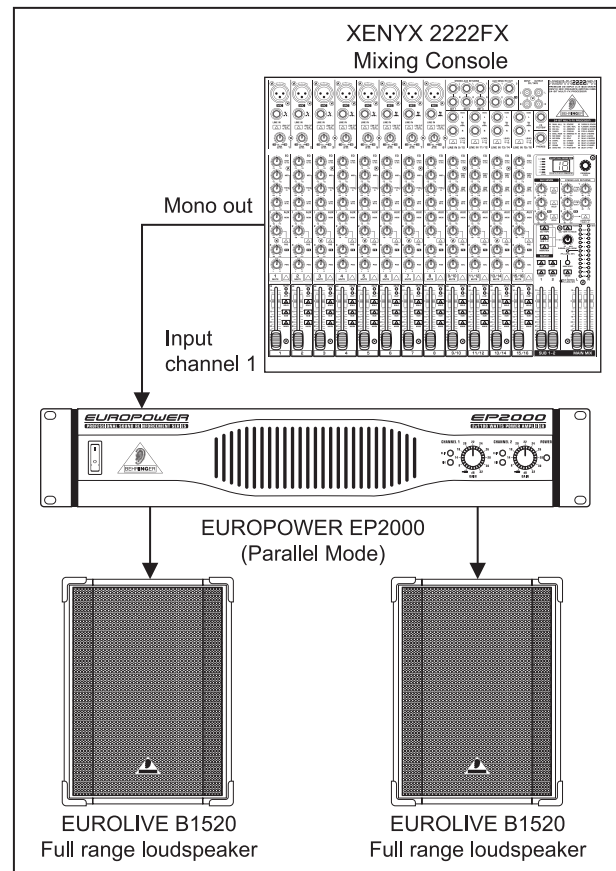


Fig. 3.3: Parallel operation

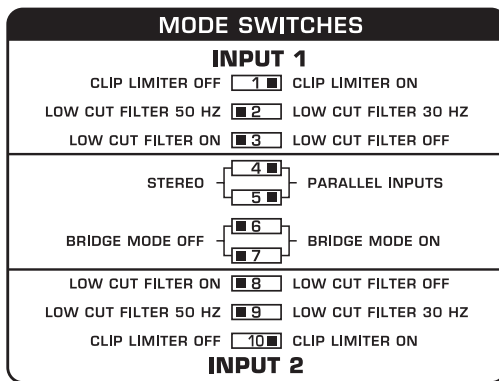


Fig. 3.4: DIP switch positions for parallel operation

When running in mono-bridged mode, the voltage of both channels is added up and fed into a single loudspeaker system. There is one input and one output signal respectively, and only the controls of channel 1 (and not of channel 2) are used.

◆ However, should the DIP switches 4 and 5 still be in **PARALLEL INPUTS** position while in mono-bridged mode, the signal on the free input (input channel 2) can be forwarded to an additional amp.

Examples:

- Driving a single 8-Ohm loudspeaker.
- Driving a single 4-Ohm loudspeaker.

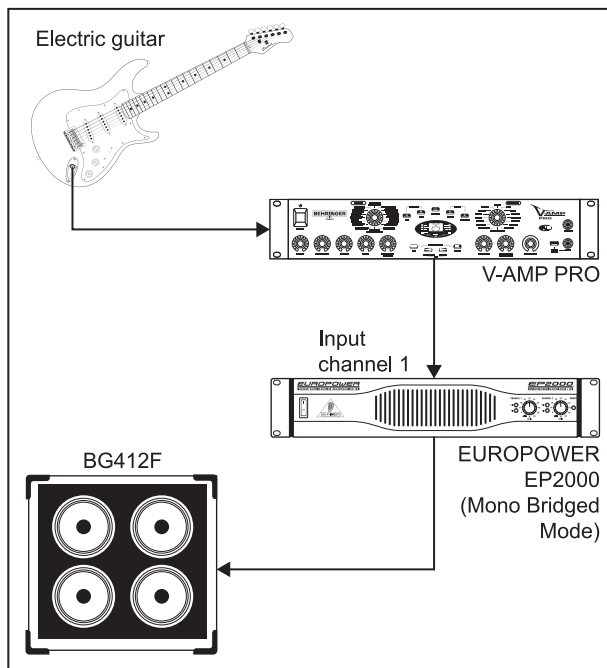


Fig. 3.5: Mono-bridged mode

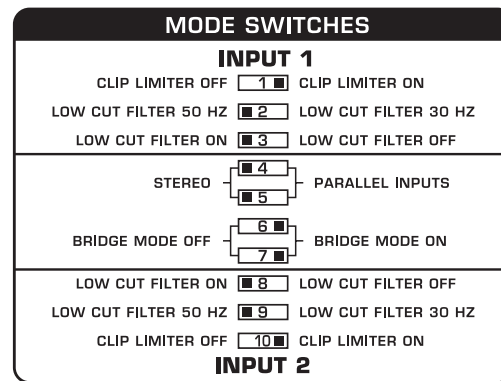


Fig. 3.6: DIP switch positions for mono-bridged mode

◆ When the amp is overdriven for longer periods of time, the output signal may occasionally be muted for several seconds. In certain situations, excessive overdriving may trigger off the automated fuse. To avoid overdriving the amp, please continually make sure that an appropriate volume level is applied.



Caution

- ◆ 2-Ohm loads should never be applied when in mono-bridged mode.
- ◆ When connecting a balanced input signal, please make sure to exclusively use balanced cables for passing the signal further on. Otherwise, a single unbalanced cable can turn the entire signal unbalanced.

Safety precautions for mono-bridged operation

- ◆ Running your amp in mono-bridged mode can quickly result in excessive overdriving and premature shutting down of the unit itself. In the worst-case scenario, your loudspeakers may be damaged permanently. Therefore, you should always make sure that the speakers you use can indeed handle the power load fed into them.
- ◆ A voltage of up to 100 V RMS is present between the output connectors of the EP4000. Always implement appropriate safety precautions when connecting your speakers to avoid the risk of electric shock.

3.2 Bi-amping

By using an active crossover, you can divide up the frequency range into several bands. For example, in doing so you can split a mono signal into upper-frequency and lower-frequency ranges. These two signals can then be hooked up to the inputs of your amp, so that channel 1 amplifies the lows and channel 2 amplifies the highs (2-channel operation). The outputs are connected to a 2-way speaker, whereby the output signal 1 drives the woofer and output signal 2 runs the drivers. Of course, you can use two separate speakers instead of a single 2-way speaker. A stereo signal can also be split up analogous to the example described above. However, to do that you need two 2-way speakers or 4 separate speakers, two EUROPOWER amps and an active 2-way stereo crossover. The BEHRINGER SUPER-X PRO CX2310 is optimally suited for this task and offers additionally a single mono-subwoofer output. By deploying a third EP2000 amp (preferably in mono-bridged mode) and a subwoofer, you have a perfect setup that adds a low-frequency system to the stereo bi-amp application (see fig. 3.7). The amp's input filters for the high/mid-frequency ranges should in this case be engaged and set at 50 Hz. To remove low, disturbing frequencies from the signal, the input filter for the subwoofer signal should be set at 30 Hz.

The BEHRINGER EUROLIVE SERIES loudspeakers are an outstanding solution for expanding your P.A. system, because each frequency range/application has a speaker type that optimally suits its characteristics.

◆ Extreme clip limiter settings in bi-amp operating mode can result in balance shifting.

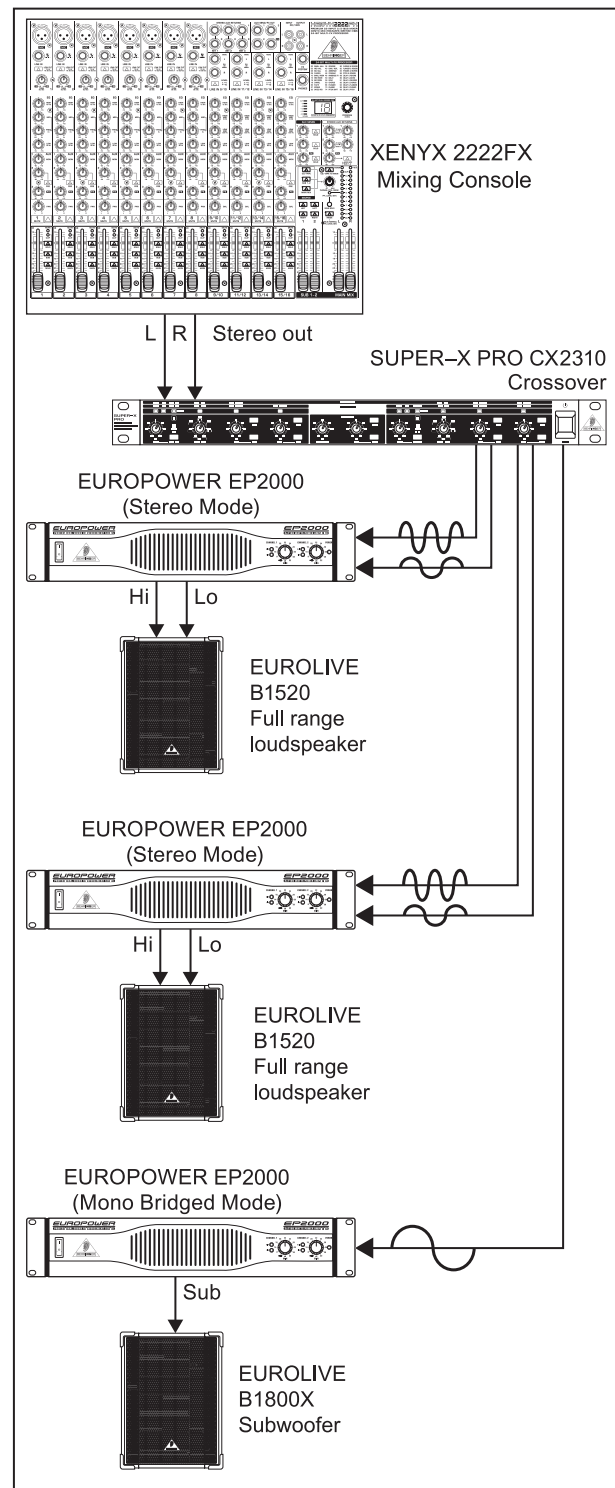


Fig. 3.7: Stereo bi-amp mode with a separate subwoofer

4. Installation

Your EUROPOWER can be installed into a 19" rack and requires two rack units. Please use four attaching screws and washers for installation. Reinforce the back end, especially for on-the-road use. Please assure that enough cool air reaches the rack, especially when other rack equipment emanates a lot of heat. In the case of the EUROPOWER EP2000 and EP4000, hot air circulates at the front of the unit to thermally relieve the rack enclosure.

◆ Fan speed adjusts automatically and assures safe operation. Never block ventilation openings. Should internal temperature reach extreme values, the unit will shut down automatically.

4.1 Connections

Inputs

Each channel features balanced XLR and ¼" TRS stereo jack inputs, with input impedances of 20 kΩ (balanced) and 10 kΩ (unbalanced). In general, balanced signals cause less noise than unbalanced signals.

For balanced input signals, use the XLR and ¼" TRS stereo inputs. For unbalanced input signals, use the unused pin of the XLR connector with grounding. No alteration is necessary on mono jack connectors.

◆ Should you register distracting signals such as noise or hissing, we recommend separating the amp input from the signal source. This way, you can quickly determine if the noise originates in the equipment connected to the amp. Always make sure to completely lower amplification of both channels before powering up the amp (GAIN control turned all the way leftward). Otherwise, permanent damage to your speakers may occur.

Outputs

Your EUROPOWER offers several output connection possibilities: two professional speaker connectors and two pairs of touch-safe binding posts. The professional speaker connectors were especially developed for driving high-power speakers. They snap in securely, prevent electric shock and assure correct polarity. The upper connector drives either one or both channels, and is therefore well-suited for mono-bridged operation (1+/2+). The lower connector carries the signals from channel 2 only.

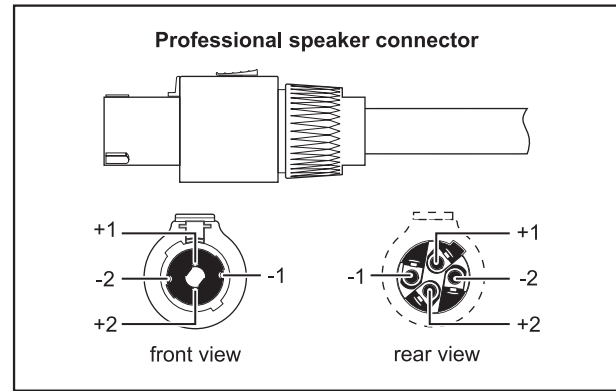


Fig. 4.1: Professional speaker connectors

◆ Whenever possible, use thick and short speaker cables to minimize power losses. Never lay output cables near input cables.

4.1.1 Using the binding posts

To connect the loudspeakers to the amplifier's binding posts, please do the following:

- 1) Switch off the amp and disconnect it from the mains (unplug mains connector).
- 2) Remove the protective plastic covers shielding the binding posts by loosening the two screws on the right-hand side of the connections and lift the plastic cover upwards.
- 3) Attach the terminal of your loudspeaker cable to the corresponding binding post.
- 4) Place the protective plastic covers into its original upright position on each binding post and replace the two screws.

◆ Never operate the device without the protective plastic covers in place!

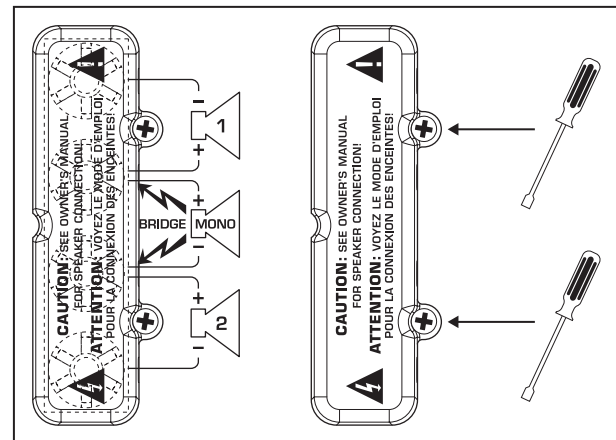


Fig. 4.2: Protective plastic covers shielding the binding posts

When using binding post connectors, please make sure that insulation on cables is not removed too high. Insert the naked part of the cable fully so that no metal is visible. Cable clamps must be isolated to avoid the possibility of electric shock. When running the amp in mono-bridged mode, always use the middle two binding post connectors, paying attention to correct polarity.



Caution

◆ If you notice naked cable endings on the binding post connectors, do not power up the amp because of the risk of electric shock.

4.1.2 Connecting to the mains

Always connect your EUROPOWER amplifier to the voltage specified on the rear of the device. Connecting the amp to an incorrect voltage can permanently damage your amp. Before powering up the amplifier, double-check all connections and fully lower the gain setting.

4.2 Audio connections

Various cables are needed for different types of applications. The following illustrations show the correct wiring. Always use high-grade cables.

◆ When connecting a balanced input signal, please make sure to exclusively use balanced cables for passing the signal further on. Otherwise, one single unbalanced cable can turn the entire signal unbalanced.

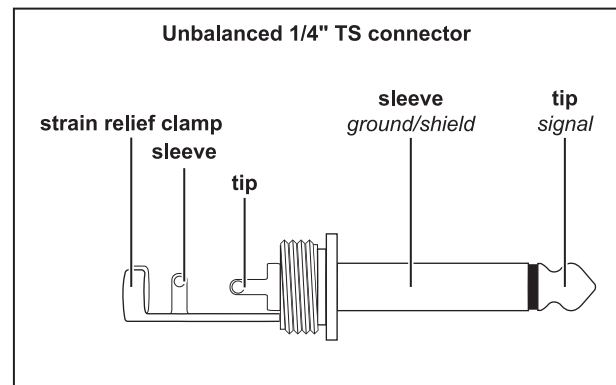


Fig. 4.4: 1/4" TS connector

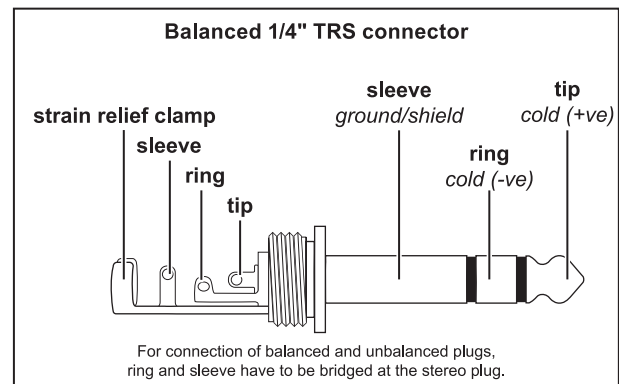


Fig. 4.5: 1/4" TRS connector

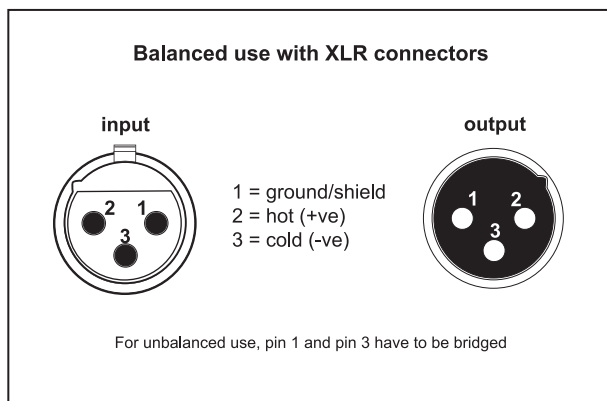


Fig. 4.3: XLR connectors

5. Specifications

Output Power

RMS @ 1% THD (sine wave), both channels driven

EP2000	
8 Ω per channel	350 W
4 Ω per channel	500 W
2 Ω per channel	650 W
EP4000	
8 Ω per channel	550 W
4 Ω per channel	950 W
2 Ω per channel	1250 W

RMS @ 1% THD (sine wave), bridged mode

EP2000	
8 Ω	1000 W
4 Ω	1300 W
EP4000	
8 Ω	1750 W
4 Ω	2400 W

Peak Power, both channels driven

EP2000	
8 Ω per channel	400 W
4 Ω per channel	750 W
2 Ω per channel	1000 W
EP4000	
8 Ω per channel	750 W
4 Ω per channel	1400 W
2 Ω per channel	2000 W

Peak Power, bridged mode

EP2000	
8 Ω	1500 W
4 Ω	2000 W
EP4000	
8 Ω	2800 W
4 Ω	4000 W

Distortion

EP2000	< 0.01%
EP4000	< 0.02%

Frequency Response

at 10 dB below rated output power	20 Hz - 20 kHz, +0/-1dB
at -3 dB points	5 Hz - 50 kHz

Damping Factor

EP2000/EP4000	> 300 @ 8 Ω
---------------	--------------------

Noise

unweighted, 20 Hz to 20 kHz	-100 dB
-----------------------------	---------

Voltage gain

EP2000	40x (32 dB)
EP4000	50x (34 dB)

Input sensitivity

V RMS (@ 8 Ω)	EP2000 1.15 V (+3.4 dBu) EP4000 1.23 V (+4.0 dBu)
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Input impedance

EP2000/EP4000	10 k Ω unbalanced, 20 k Ω balanced
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Controls

Front	Power switch, gain control (channels 1 and 2)
Rear	DIP switches (10x)

Indicators

POWER	green LED
CLIP	red LED, 1 per channel
SIGNAL	yellow LED, 1 per channel

Connectors

Inputs	Balanced XLR and 1/4" TRS connectors
Outputs	Touch-Proof binding posts and professional speaker connectors

Cooling

EP2000/EP4000	Continuously variable speed fan, back-to-front air flow
---------------	--

Amplifier protection

EP2000/EP4000	Full short circuit, open circuit, thermal and HF protection Stable into reactive or mismatched loads
---------------	--

Load protection

EP2000/EP4000	Turn-on/off muting, AC coupling
---------------	---------------------------------

Output circuit type

EP2000	Class AB complementary linear output
EP4000	Class H complementary linear output

Power supply

Mains voltage/Breaker	
100 - 120 V~, 50/60 Hz	15 A
220 - 230 V~, 50/60 Hz	8 A

Power consumption

EP2000	1600 W
EP4000	2600 W

Mains connector	Standard IEC receptacle
-----------------	-------------------------

Dimensions/weight**Dimensions (H x W x D)**

EP2000/EP4000	approx. 88 x 483 x 402 mm approx. 3.5 x 19 x 15.8
---------------	--

Weight

EP2000	approx. 15.7 kg / 34.6 lbs
EP4000	approx. 16.6 kg / 36.6 lbs

BEHRINGER makes every effort to ensure the highest standard of quality. Necessary modifications are carried out without notice. Thus, the specifications and design of the device may differ from the information given in this manual.

Legal Disclaimer

Technical specifications and appearance are subject to change without notice. The information contained herein is correct at the time of printing. BEHRINGER accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph or statement contained herein. Colors and specifications may vary slightly from product. Our products are sold through authorized dealers only. Distributors and dealers are not agents of BEHRINGER and have absolutely no authority to bind BEHRINGER by any express or implied undertaking or representation. This manual is copyrighted. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording of any kind, for any purpose, without the express written permission of BEHRINGER International GmbH.

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Warranty

§ 1 Other warranty rights and national law

- ① This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.
- ② The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

§ 2 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase by visiting <http://www.behringer.com> and kindly read the terms and conditions of our warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

§ 3 Warranty

- ① BEHRINGER (BEHRINGER International GmbH including all BEHRINGER subsidiaries, except BEHRINGER Japan) warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year* from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not excluded from this warranty as described under § 5, BEHRINGER shall, at its discretion, either replace or repair the product using suitable new or reconditioned parts. In the case that other parts are used which constitute an improvement, BEHRINGER may, at its discretion, charge the customer for the additional cost of these parts.
- ② If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.
- ③ Warranty claims other than those indicated above are expressly excluded.

§ 4 Return authorization number

- ① To obtain warranty service, the buyer (or his authorized dealer) must call BEHRINGER during normal business hours BEFORE returning the product. All inquiries must be accompanied by a description of the problem. BEHRINGER will then issue a return authorization number.
- ② Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by BEHRINGER.
- ③ Shipments without freight prepaid will not be accepted.

§ 5 Warranty regulations

- ① Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealer's invoice. Any product deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced.

- ② If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation.
- ③ Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, tubes, guitar strings, illuminants and similar parts.
- ④ Damage/defects caused by the following conditions are not covered by this warranty:
 - improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals;
 - connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
 - damage/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER.
- ⑤ Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.
- ⑥ If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.
- ⑦ Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

§ 6 Warranty transferability

This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of BEHRINGER.

§ 7 Claim for damage

Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of BEHRINGER exceed the invoiced value of the product.

* Customers in the European Union please contact BEHRINGER Germany Support for further details.



This manual is available in English, German, French, Spanish, Italian, Russian, Polish, Dutch, Finnish, Swedish, Danish, Portuguese, Greek, Japanese and Chinese. There may also be more current versions of this document. Download them by going to the appropriate product page at:

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